

Do:

$$\sqrt{2x-2} - \sqrt{x+6} = 1$$

Inequalities

ex:

$$\sqrt{3x+6} + 2 \leq 5$$

$$\sqrt{3x+6} \leq 3$$

$$3x+6 \leq 9$$

$$3x \leq 3$$

$$x \leq 1$$

Could be \leq or \geq

Check both sides to be sure

Check 0 + X

$$-2 \leq x \leq 1$$

Restrictions

$$3x+6 \geq 0$$

$$3x \geq -6$$

$$x \geq -2$$

ex:

$$6 - \sqrt{2x+1} < 3$$

HW

p266

15, 17, 23, 27, 30, 33, 35